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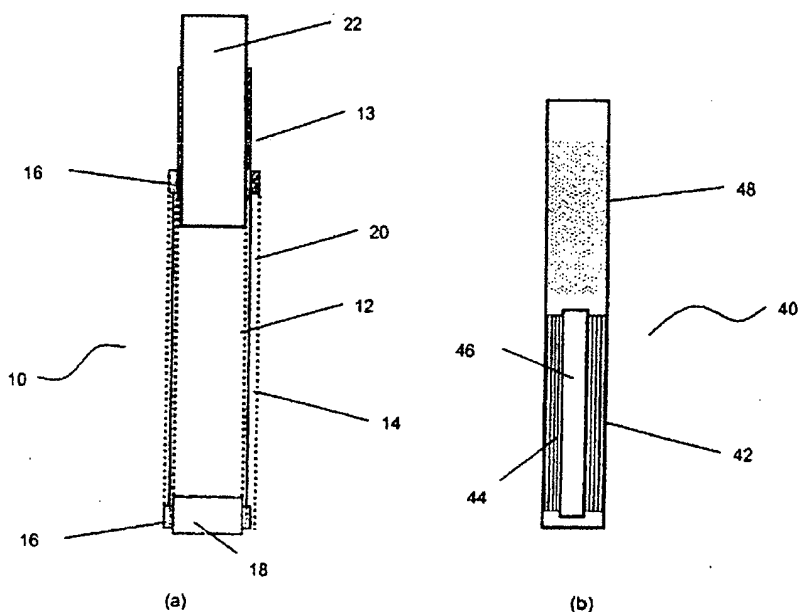
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[Continued on next page]

(54) Title: ELECTROLYSIS PROCESS AND APPARATUS



(57) Abstract: The invention provides an electrolysis apparatus for the production of hydrogen and oxygen, which apparatus includes at least two or more tubular electrodes, at least one of which is an inner electrode located in at least one outer electrode, and a separator interposed between the inner and outer electrodes and substantially coextensive therewith. One or more of the electrodes may, in use, be an anode. One or more of the electrodes may, in use, be a cathode.

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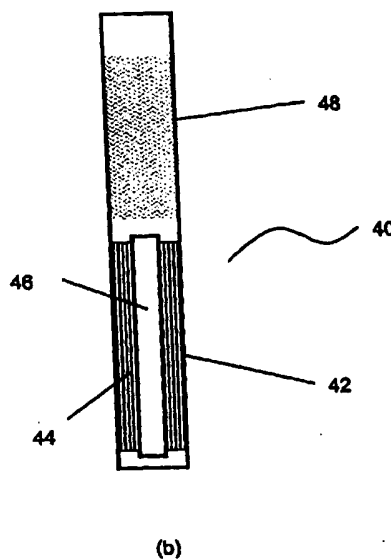
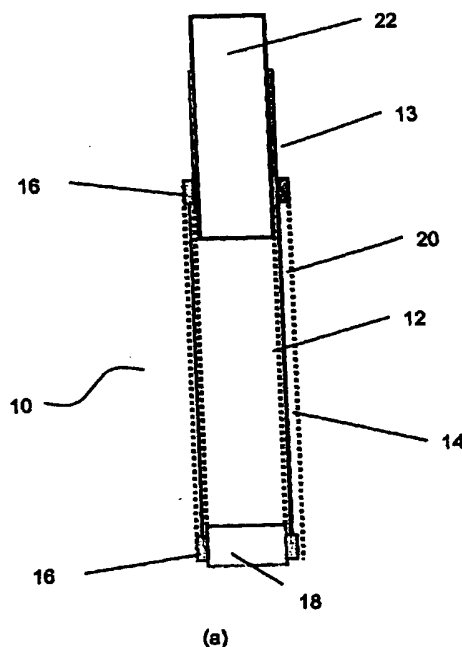
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ity model), DE, DK (utility model), DK, DM, DZ, EC, EE
(utility model), EE, ES, FI (utility model), FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
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Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: ELECTROLYSIS PROCESS AND APPARATUS



(57) Abstract: The invention provides an electrolysis apparatus for the production of hydrogen and oxygen, which apparatus in-
cludes at least two or more tubular electrodes, at least one of which is an inner electrode (12) located in at least one outer electrode
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electrodes may, in use, be an anode. One or more of the electrodes may, in use, be a cathode.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C25B 1/00, 3/00, 11/00, 11/03, 11/04, 13/00; C25D 17/00

US CL : 204/253, 260, 266, 282, 283, 284, 290.01, 292, 293, 295; 205/334

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 204/253, 260, 266, 282, 283, 284, 290.01, 292, 293, 295; 205/334

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

East: 204/260.ccls. and hydrogen near oxygen; tubular near electrode

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,984,303 A (PETERS et al) 05 October 1976 (05.10.1976), See entire patent.	1-3, 5-7, 9, 11, 14-15, 17, 19, 22-23, 25, 35, 38, 40-41, 51-55, 57-59
Y	US 3,933,614 A (BUNN, JR.) 20 January 1976 (20.01.1976), columns 2-3.	1-6, 9-11, 15, 17, 22-23, 25-29, 35, 37-38, 44-46, 51-52, 55, 59
Y	US 4,374,014 A (SMITH et al.) 15 February 1983 (15.02.1983), see columns 3-5.	1-7, 9, 14-15, 17-19, 26-29, 32-35, 37-38, 44-46, 51-52, 55, 59
A-	US 4,130,473 A (EDDLEMAN) 19 December 1978 (19.12.1978)	

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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document member of the same patent family

Date of the actual completion of the international search

05 March 2004 (05.03.2004)

Date of mailing of the international search report

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Name and mailing address of the ISA/US

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